

# REPORT

OF THE

## MEDICAL OFFICER OF HEALTH

TO THE

GLoucester

Urban Sanitary Authority

FOR 1894.



*Presented to the Sanitary Committee on 15th February, 1895,  
and ordered to be printed.*



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# REPORT.

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*To the Chairman and Members of the Sanitary Committee  
of the Gloucester Urban Sanitary Authority.*

GENTLEMEN—

I have the honour to present to you my Annual Report as Medical Officer to the Urban Sanitary Authority.

This Report embraces the periods between the first of January and the thirty-first of December, eighteen hundred and ninety-four.

I am pleased to be able to say that no severe epidemic occurred, and also that the health of the city has been exceptionally good. The death-rate is lower than it has been for some years, and I feel that what may be called preventable diseases are being gradually eliminated ; not only by the efforts of the Authority and its officials, but by a better understanding on the part of the people of the means that lead to so desirable an end. True, [at the beginning of the year a rather large number of cases of Enteric or Typhoid Fever occurred, but I have no doubt at all that this arose from the use of Severn water, which had to be admitted to the

Enteric  
Severn

water supply at the end of the previous year and on to the beginning of 1894. Because whereas, previous to this use of Severn water only an occasional case was reported, a very decided increase of this disease took place when river water was used, and after the supply was discontinued there was at once a falling off in the number of cases. The epidemic of Scarlet Fever which had prevailed during the past two years has been gradually declining; and Diphtheria has almost disappeared. This latter disease, as you will remember, prevailed with us during the two years previous to 1894, to an alarming extent.

During the past two years, great efforts have been made to bring individual houses and tenements into a more satisfactory sanitary condition, and as the central part of the city is necessarily composed of very old buildings, this work has been of a very arduous character. It is surprising what a labyrinth of insanitary engineering and house construction was brought to light. The most elaborate attempts at drainage and ventilation being met with which totally failed to effect their object through ignorance of the simpler but infinitely more effectual means now in use. Another great source of trouble was the water supply to individual houses; the tenants and proprietors persisting in drawing their supply from the previously existing shallow wells, and stating that such supply was quite safe to use.

I pointed out more than once, in previous Reports, the danger of such supply, charged as it is with all

the poisons from leaky closet pipes in the vicinity, also with surface washings. The improvements in this direction will be set forth in detail farther on, and I trust we will soon succeed in removing the danger altogether.

The Gloucester Corporation Water Bill has at length become law, and as every effort is being made to push on the work connected with the additional water from Newent, the city will soon have an excellent supply of good and pure water. In previous years this was insufficient and the city had quite outgrown the Witcombe supply, and it was only by the most vigilant efforts that the reservoirs could be made to keep pace with the demand. The Act just referred to contains many useful clauses in relation to sanitary matters, such as additional powers with regard to the examination and improvements of insanitary dwellings, the regulation of slaughter-houses, and the closure of such if deemed necessary; also the additional powers conferred in relation to the prevention of Infectious Disease, such as compulsory notification by dairymen supplying milk in the city of their customers within the city, if required to do so. Provision by laundresses of a list of their customers within the city when such list is required. Provision by milk sellers within the city of a list of the dairies from which their milk may be procured, if it appears that such milk is the cause of disease. Provision is also made that dairymen within or without the city supplying milk

within the same, give notice of Infectious Disease existing among their employees who are engaged in such dairy work.

Persons suffering from infectious disease are not to milk cows, pick fruit, engage in any occupation connected with food intended for man, so as to spread infectious disease.

Blowing or inflating carcases of animals is also prohibited.

Persons sending or depositing food for the purpose of sale are also under a penalty. Persons selling diseased food to others for the purpose of sale are also rendered liable as well as the actual possessors. Owners of public-houses are also under a penalty unless they provide proper urinals for use at such houses.

Valuable clauses are also inserted with regard to buildings in course of erection, as to drainage, &c.

A clause also provides that the Sanitary Authority may make bye-laws relating to admission and discharge of patients to the Hospital provided for infectious disease, also as to the conduct of such patients in the Hospital, and preventing persons from entering such Hospital except with the consent of the Authority.

It will be seen that these clauses in the Act are of immense importance in a sanitary point of view.

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## VITAL AND MORTAL STATISTICS.

I estimate the population of the city at the end of the year to be 40,282, and I have again adopted the plan of dividing the district into four divisions as follows:—

The *Kingsholm* District, which comprises the Parish of Wotton St. Mary Within.

The *St. Nicholas* District, comprising the Parishes of St. Nicholas, St. Mary-de-lode, St. Catherine, Holy Trinity, and Pool Meadow.

*St. John the Baptist* District, comprising the Parishes of St. John, St. Aldate, St. Michael, St. Mary-de-Crypt, St. Owen, and St. Mary-de-grace.

*South Hamlet* District, comprising the Parishes of South Hamlet, Littleworth, and Barton St. Mary.

The populations of these parts will be: Kingsholm, 2,666; St. Nicholas, 7,522; St. John the Baptist, 8,102; and South Hamlet, 21,992. The acreage and number of persons to an acre in the several divisions are: Kingsholm, 265 acres, with a density of population of 10·06 to an acre; St. Nicholas, 351 acres, with a density of 21·43 to an acre; St. John the Baptist, 126 acres, with a density of 64·3 to an acre; and South Hamlet, 700 acres, with a density of 31·41 to an acre.

It will thus be seen that St. John the Baptist is by far the most densely populated part of the city,

South Hamlet comes next, St. Nicholas next, and Kingsholm least of all.

This is accounted for by the somewhat large tracts of land not built upon in the two latter, as compared with the others.

A coloured map accompanying this Report shows the position and extent of each district.

This plan of dividing the City into separate parts is of great value, as enabling me to trace disease relatively to its preventable causes, and to give each division its own birth-rate, death-rate, and disease distribution.

It will be observed in a table at the end that I have altogether ignored public Institutions as separate districts, but I have ascertained the previous residence of every person dying in such Institutions, so as to give each part of the city its own proportion of deaths. This of course refers only to people within the city. All strangers dying in the city are placed in a separate list in the death table at the end of the Report.

The *Births* during the year number 1,216, or, 619 males and 597 females. They are for the four districts: *South Hamlet*, 361 males and 354 females; *Saint Nicholas*, 114 males and 111 females; *Saint John the Baptist*, 88 males and 81 females; *Kingsholm*, 56 males and 51 females.

The birth-rate over the whole city is therefore 30·18 per thousand living, and the birth-rate in the several divisions will be: *South Hamlet*, 32·51 per

thousand; Saint Nicholas, 29·91 per thousand; Saint John the Baptist, 20·85 per thousand; and Kingsholm, 40·13 per thousand living.

Thus it will be seen that in Kingsholm and South Hamlet, where presumably a greater number of young people live, the proportion of births is much greater than in Saint John the Baptist and Saint Nicholas, where a presumably older population exists.

The *Deaths* during the year numbered 618, a number as I have already mentioned less than for several years. The population numbering, as already stated, 40,282, the death-rate is 15·34 per thousand living, which is the lowest during many years.

Various circumstances may contribute to this desirable end, the absence of any very fatal epidemic and a fairly satisfactory condition of weather during the period under consideration, but I think we may claim a fair amount of credit for the efforts which have been made by the Authority, not only to assure a more healthy condition of the houses of the people, but also to isolate Infectious Disease at the beginning of its appearance.

I am aware that there has been some outcry as regards the expense incurred in this direction, but if we can save life and mitigate suffering to such an appreciable extent by acting in this way, I feel that no expense in connection with city affairs will be so well laid out; and it is becoming more apparent every day throughout the whole of

England that such expense as is incurred in sanitary matters tends towards reaping the richest harvest.

Proceeding to the different districts of the city, we find that in South Hamlet the death-rate was 15·9 per thousand; in Saint Nicholas the rate was 16·61; in Saint John the Baptist the rate was 13·45; and in Kingsholm the rate was 19·50 per thousand.

Thus we find the highest death-rate in Kingsholm, next in Saint Nicholas, next in South Hamlet, and the lowest of all in Saint John the Baptist.

One hundred and sixty-six children died under one year of age during the year, and as there were 1,216 births in the same period, the infant mortality is therefore 136·51 per thousand born, as against 141·14 the previous year, and 125·0 in the year 1892.

Continuing this into the several divisions we find in South Hamlet an infant mortality of 127·27 per thousand born; in Saint Nicholas 164·44 per thousand; in Saint John the Baptist 140·24 per thousand; and in the Kingsholm district 140·18 per thousand born.

In the class of diseases known as Zymotic, there were 52 deaths, making a Zymotic death-rate of 1·29 per thousand over the whole city, and of the divisions, South Hamlet had a Zymotic death-rate of 1·50 per thousand; Saint Nicholas of 1·19 per thousand; Saint John the Baptist of 0·86 per thousand; and Kingsholm a Zymotic death-rate of 1·12 per thousand of its population.

This compares favourably with the previous year, when there was a Zymotic death-rate of 2·17 per thousand, and 1·96 in the year preceding that.

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The following infectious diseases are notifiable in this city, in accordance with the Infectious Diseases Notification Act, namely :—Small Pox, Cholera, Diphtheria, Membraneous Croup, Erysipelas, Scarlatina or Scarlet Fever, and the fevers known as Typhus, Typhoid or Enteric, Relapsing, Continued and Puerperal. Any other diseases of a like kind may be placed by the Authority in the list of notifiable diseases by taking the proper steps to do so.

Of the diseases named as notifiable in this district 233 have been so notified during the year, against 446 cases in the year preceding. They were distributed as follows: South Hamlet, 138; Saint Nicholas, 34; Saint John the Baptist, 37; and Kingsholm, 24.

As it is interesting to know how these cases were distributed, with respect to the population in each division, I may just give the ratio per thousand of the population in each :—in South Hamlet the rate was 6·27; in Saint Nicholas, 4·52; in Saint John the Baptist, 4·56; and in Kingsholm, 9·00 per thousand.

Thus we see that in South Hamlet and Kingsholm, where the population consists of younger people, the rate is highest, because the diseases

notified are principally those of childhood ; whereas in Saint John the Baptist and Saint Nicholas, where the people are principally older, the rates are lower.

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Subjoined is a sanitary statistical list to the end of 1894, and on examining it we find that there are still 141 houses supplied with pump water from shallow wells ; this number is rapidly diminishing, and I hope that soon after we have the new water supply we shall be able to say that there are no houses deriving their supply from pumps. There are still 190 houses without proper flush boxes though city water is laid on, and we hope soon to be able to get this work done, as during the year it may be observed that 149 such cases have been remedied.

It will also be observed with satisfaction that 280 houses were connected with city water and provided with flushing boxes during the year.

I am sorry that the Hempstead or Lysons' water is still supplied to 155 houses.

#### CITY OF GLOUCESTER

#### SANITARY STATISTICS, 1894.

	PLANS PASSED				BUILT	
Roads and Streets	...	...	4	...	...	3
Houses	...	...	279	...	...	218
Offices	...	...	1	...	...	1
Business Premises	...	...	3	...	...	3
Stables	...	...	1	...	...	1
Sheds, Workshops, &c.	...	5	...	...	...	4
Alterations and additions	...	28	...	...	...	27
Re-building Premises	...	2	...	...	...	2
Totals	...	323	...	...	259	

## WATER SUPPLY.

Houses supplied with City Water and provided with Flushing Boxes to w.c.'s at end of 1893	...	...	...	7978
Houses connected with City Water and provided with Flushing Boxes to w.c.'s during 1894	...	...	...	280
Flushing Boxes fixed at houses where City Water was already laid on	...	...	...	149
Total number of Houses with Flushing Boxes	...	...	8407	
Houses still without Flushing Boxes but supplied with City Water	...	...	...	190
Total number of Houses with City Water	...	...	8597	
Houses supplied with City Water and provided with Flushing Boxes at end of 1894	...	...	...	8407
Houses with City Water without Flushing Boxes	...	190		
Houses supplied with Pump Water	...	...	141	
Houses supplied with Lysons' Water	...	...	155	
			486	
Total number of Houses in City	...	...	...	8893

## VENTILATING SHAFTS.

Number of Shafts erected to end of 1893	...	...	...	966
Number of Shafts erected in 1894	...	..	...	114
Total number of Ventilating Shafts	..	...	...	1080
Drains removed to outside of Houses during 1894	...	186		
Soil Pipes removed to outside of Houses and properly ventilated	...	...	...	46
Flush Boxes repaired	...	...	...	117
w.c. Drains cleared	...	...	..	92

## FOOD AND DRUGS AND MARGARINE ACTS.

One hundred and one samples were taken for analysis during the year, but it was found necessary to institute prosecutions only in four instances, when fines were inflicted, varying from five shillings to two pounds. Adulteration was found in other cases

besides those prosecuted, but in these the samples were only taken as trial ones without the formality of the Acts of Parliament, therefore prosecutions could not be instituted. We are now, however, continuing a very vigorous tirade against offenders of this class, and hope in the year now commenced to take a great many more samples than ever before. In this way only can the public be protected against the large amount of adulteration going on.

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### SPECIAL DISEASES.

#### SMALL POX.

Seven cases of this disease occurred during the year. It is not to be wondered at that a few are brought into the city, for the disease has been very rife in the surrounding districts, and more especially Birmingham. None of the cases seemed connected with each other, but arose now and again without any communication. All the cases were removed to the Infectious Diseases Hospital, the houses were thoroughly disinfected and isolated, and, I am glad to say that no case of this disease has shown itself for some time.

#### SCARLET FEVER.

The epidemic of this disease that has been prevalent here more or less for the past three years is apparently dying out, for but few cases were recorded during the latter part of the year.

One hundred and seven cases were reported during the year, and as the Hospital is now made free for people not able to pay for admission, a large proportion of those cases have been removed there; and I have no doubt that this has tended largely to stamp out the disease; indeed, I am sure that had the Hospital been in its present condition at the beginning of the outbreak, we should have been able to have stamped it out at the commencement.

#### DIPHTHERIA.

Only thirty cases of this disease occurred during the year, a remnant of the epidemic of Diphtheria prevailing for the past three years, but we are now practically free from it. Every precaution has been taken to stamp it out. All houses were disinfected, the cases isolated, and early burial insisted on in case of death. Whatever the primary cause of this disease is, there is no doubt that insanitary surroundings have a good deal to do with its spread, and it must be regarded as highly infectious.

I trust that the new treatment by the injection of serum, and called antitoxine, will have the effect of stamping out this very intractable malady.

The greatest difficulty seems to be in diagnosis, for many mild cases of sore throat are really cases of Diphtheria, and if not recognised will cause it to spread.

I would suggest that if we are threatened with a return of Diphtheria, the Authority should provide

antitoxine, and defray the cost of treating the disease by this method, at the very outset of its appearance. In this way much subsequent trouble would likely be saved, and, without doubt, it has been arrested over and over again in Berlin during the past year.

#### MEMBRANEOUS CROUP.

Only one case occurred during the year, but I regret to say that there were forty-nine cases of

#### ENTERIC FEVER.

*46*  
These cases occurred principally at the very beginning of the year, just after Severn water had been used in the city. After that time very few cases happened, and only a few were notified towards the latter half of the year. I think we shall be able to rid the city of Enteric Fever in the course of a year or so, when a good and plentiful supply of water is laid on.

#### PUERPERAL FEVER.

Six cases were notified; I am pleased to say only one of which proved fatal.

#### ERYSIPelas.

Thirty-three cases of this disease occurred, not one proving fatal. They were of a very mild character indeed.

No case of Typhus, Relapsing nor Continued Fever occurred; and no case of Cholera.

Of the diseases named, the cases were fairly distributed over the city, and no district more than another was specially visited.

One hundred and fifty houses where infectious disease occurred were disinfected during the year, and the bedding and other goods treated likewise, but in the cases of Small Pox the bedding and other articles likely to retain infection were destroyed, and compensation given.

In connection with this subject, I regret to say that we are still without a steam disinfecter. For years past the Local Government Board has been urging that such should be procured, and now that the Local Authority has decided to procure one, the Local Government Board has refused to sanction a loan for the purpose; this may be sound policy, but it seems rather a curious way of assisting in the stamping out of disease.

The Hospital can be only partially successful so long as no proper disinfecting apparatus exists, and should an epidemic of Small Pox or the like occur, the expense would be very much more than the price of a proper apparatus.

It is useless trying to prevent infectious disease unless disinfection is properly carried out.

#### FEVER HOSPITAL.

There were seven cases of Small Pox treated here during the year, all of which recovered.

There were eighty-five cases of Scarlet Fever treated, with two deaths only. The cases were

mostly very mild, though there were some very severe cases, and altogether the results are very satisfactory.

The staff of the Hospital has been very efficient, and under the able and painstaking efforts of Mr. and Mrs. Hall (the custodian and his wife) the Institution has been well regulated and kept in perfect working order.

#### LODGING-HOUSES.

A systematic inspection of lodging-houses has been made, and no license granted until a thorough investigation had been made as to the suitability of the house for the purpose.

Houses let in lodgings have also received regular attention, and where any infringement of the law has been observed, such as nuisance, failing to lime-wash, overcrowding, want of cleanliness, and the like, proceedings have been taken in every case to remedy the evil.

#### BAKEHOUSES.

These have been systematically inspected, and any defects remedied.

There are some whose structural defects have required alteration, but proprietors have remedied them when requested to do so.

#### SLAUGHTER-HOUSES.

These have been regularly inspected, and though some are not structurally perfect, they are kept

clean, and generally conducted in accordance with the bye-laws.

Even with the most careful supervision, these old slaughter-houses are, some of them, more or less a nuisance, either in consequence of their unsuitability for the purpose, or on account of their proximity to other houses or places of business. I shall be glad when a public slaughter-house is erected, for then many of the existing objections can be done away with.

#### SHOPS FOR THE SALE OF IMPORTED FOOD.

These have also been inspected from time to time and have been found satisfactory.

#### OFFENSIVE TRADES.

The premises where such are conducted are regularly inspected, and the proprietors have always been ready to do their utmost in remedying any nuisance when such was complained of. One or two fresh premises have been opened during the year with the sanction of the Sanitary Committee, after full investigations as to the suitability of the premises for the purpose.

#### CANAL BOATS.

Two hundred and five inspections of canal boats have been made. Nine boats have been registered, and two new boats added.

Mr. Brydon, Government Inspector, has expressed himself satisfied with the manner in which the Canal Boats Act has been administered.

No case of infectious disease was found in the boats, and no infringement of the Act was observed.

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For the following meteorological observations I am indebted to Mr. William Hodges, D.P.H., Cantab., 38, Park Road. All instruments are verified with Kew Certificate, and are taken in accordance with the Meteorological Society's instructions.

I have the honour to be,

Yours faithfully,

JOHN CAMPBELL, M.D.

*Medical Officer of Health.*

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# LOCAL GOVERNMENT

K<sup>2</sup> 3.

(A)

TABLE OF

During the year 1894, in the Urban Sanitary District of Gloucester.

NAMES AND LOCALITIES adopted for the purpose of these Statistics.	(a)	MORTALITY FROM ALL CAUSES AT SUBJOINED AGES.							MORTALITY			
		At all ages	Under 1 year	1 and under 5	5 and under 15	15 and under 25	25 and under 65	65 and up- wards	(i)	Smallpox	Scarlatina	Diphtheria
		(b)	(c)	(d)	(e)	(f)	(g)	(h)		1	2	3
									Under 5	...	...	...
									5 upwards	...	...	...
									Under 5	...	2	2
South Hamlet	...	332	91	35	15	18	86	87	5 upwards	...	...	2
St. Nicholas	...	125	37	13	3	5	27	40	Under 5	...	...	1
St. John the Baptist	...	109	23	8	6	4	33	35	5 upwards	...	...	...
Kingsholm	...	52	15	6	1	1	15	14	Under 5	...	...	...
									5 upwards	...	...	...
TOTALS		618	166	62	25	28	161	176	Under 5	...	2	3
									5 upwards	..	...	4

The subjoined numbers have also to be taken into account.

Deaths occurring outside the district among persons belonging thereto	...	...	...	...	...	...	...	...	Under 5	...	...	...
Deaths occurring within the district among persons not belonging thereto	104	4	...	3	6	52	39	...	5 upwards	...	...	...

## **BOARD TABLES.**

## DEATHS

per, classified according to Diseases, Ages, and Localities.

~~H~~I SUBJOINED CAUSES, DISTINGUISHING DEATHS OF CHILDREN UNDER FIVE YEARS OF AGE.

it in judging of the above records of mortality.





# LOCAL GOVERNMENT

K<sup>2</sup> 11.

## (B) TABLE OF POPULATION, BIRTHS, AND

Coming to the knowledge of the Medical Officer of Health, &  
classified according to II

NAMES AND LOCALITIES adopted for the purpose of these Statistics.  (a)	POPULATION AT ALL AGES.		Registered Births  (d')	Aged under 5 or over 5  (e)	NEW CASES OF SICKNESS IN EACH KNOWLEDGE OF THE MEDICAL OFFICER OF HEALTH						
	Census 1891  (b)	Estimated to end of 1894  (c)			1 Smallpox  1	2 Scarlatina  2	3 Diphtheria  3	Membranous Croup  4	5 Typhus  5	6 Enteric or Typhoid  6	7 Continued  7
South Hamlet (H) ...	21249	21992	715	Under 5 5 upwards	... 18	4	...	...	2	25	..
St. Nicholas ...	7227	7522	225	Under 5 5 upwards	1 58	9	...	...	1	6	..
St. John the Baptist ...	7895	8102	169	Under 5 5 upwards	1 3	...	1	...	...	11	..
Kingsholm ...	2868	2666	107	Under 5 5 upwards	2 2	...	...	...	...	4	..
TOTALS...	39239	40282	1216	Under 5 5 upwards	2 25 8 1	82 22	...	...	3	46	..

State here whether "Notification of Infectious Disease" is compulsory in District  
insert in the columns with blank headings the names of any that are notifiable in the District  
used by the sick of the District. Mark (H) the Locality in which such Hospital is  
HOSPITAL, WITHIN DISTRICT.

# BOARD TABLES.

## NEW CASES OF INFECTIOUS SICKNESS

in the year 1894, in the Urban Sanitary District of Gloucester,  
Names, Ages and Localities.

LOCALITY, COMING TO THE OFFICER OF HEALTH.					NUMBER OF SUCH CASES REMOVED FROM THEIR HOMES IN THE SEVERAL LOCALITIES FOR TREATMENT IN ISOLATION HOSPITAL.												
Puerperal	Cholera	Erysipelas			Smallpox	Scarlatina	Diphtheria	Membranous Group	Typhus	Enteric or Typhoid	Continued	Relapsing	Puerperal	Cholera	Erysipelas		
9	10	11	12	13	1	2	3	4	5	6	7	8	9	10	11	12	13
...	...	5	...	...	...	13	...	...	...	...	...	...	...	...	...	...	...
3	...	13	..	...	1	44	..	...	...	...	...	...	...	...	...	...	...
...	...	1	...	...	1	2	...	...	...	...	...	...	...	...	...	...	...
2	...	6	...	...	1	6	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...
...	...	2	...	...	3	10	...	...	...	...	...	...	...	...	...	...	...
...	...	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
1	..	5	...	...	8	...	...	...	...	...	...	...	...	...	...	...	...
...	...	7	...	...	2	17	...	...	...	...	...	...	...	...	...	...	...
6	...	26	...	...	5	68	...	...	...	...	...	...	...	...	...	...	...

Since when?—1ST NOVEMBER, 1891. Besides the above-mentioned Diseases, fill the columns accordingly. State here the name of the Isolation Hospital; and if not within the District, state where it is situated—INFECTIOUS DISEASES



METEOROLOGICAL  
RETURNS  
FOR THE YEAR 1894.

## JANUARY.

Date.	Barometer. Inches.	Solar Radiation	Temperature		Hygrometer.				Wind.		Days' Sunshine	Rainfall.
			Maximum.	Minimum.	Wet Bulb.	Dry Bulb.	Dew Point	Humidity.	Direction.	Force.		
1	30.45	46	39	30	36	38	33.3	83	N W	1	b	1
2	30.36	46	36	23.5	33	35	29.8	80	N	1	b	1
3	30.62	46	32	25	25	27	15.8	61	N E	1	b	1
4	30.33	37	30	17	28.2	31	20.6	64	N N E	4	b snow	1
5	29.82	31	18	14	...	...	...	...	N E	1	o snow	1
6	29.61	30	18.5	24	...	...	...	...	S E	1	b snow	1
7	29.90	34	30.5	21	...	...	...	...	E S E	1	o	1
8	30.00	41	40	30	...	...	...	...	E & S W	4	o	1.5
9	29.75	52	49	38	39	40	37.7	92	E S E	1	o	1.5
10	29.80	57	52.5	46.5	48	50	45.9	86	S W	2	o	1.04
11	29.82	60	53.5	40	50	54	46.1	74	S W	2	b	1.05
12	30.40	57	50.5	45	46	50	41.8	74	S E	1	b	1
13	30.00	59	47	45	46	48	43.8	86	S S W	1	o	1.03
14	29.83	50	46.5	34	47	47	47	100	S W	1	o	1.05
15	30.14	54	48.5	37	37	38	35.6	91	S W	1	b	1.10
16	29.95	59	51.5	47	46	48	43.8	86	S W	1	o	1.09
17	29.66	61	51	40	47	48	45.9	93	S W	2	o	1.10
18	29.50	56	48.5	38	41	42	39.8	92	S W	1	b	1 trace
19	29.90	56	51	48	47	50	43.8	80	W S W	1	o	1.21
20	29.55	55	47.5	40	44	47	40.6	79	S W	1	b	1.01
21	30.00	59	50	42	46	48	43.8	86	S W	1	b	1.01
22	29.60	50	43.5	32	42	43	40.8	92	W S W	1	o	1.16
23	29.94	48	40	21	36	37	33.3	83	N W	1	b	1
24	30.20	50	47	30	34	36	31.0	82	S W	1	b	1.01
25	29.94	62	48	36	47	48	45.9	93	S W	1	b	1.08
26	29.80	50	48.5	41	36	40	30.8	69	N W	1	b	1.02
27	29.80	57	49	37	46	49	42.8	79	S W	2	o	1.03
28	29.62	49	42	35.5	35	39	29.7	70	W N W	1	b	1
29	30.56	50	46.5	38	37	39	39	100	W N W	1	b	1.15
30	29.74	56	46	37	43	45	40.7	85	S W	2	b	1.18
31	29.56	55	41	30	38	38	38	100	W S W	1	o snow	1.15
												1.78

Total days on which sun shone, 23.

Total days on which rain fell, 20.

Total inches heaviest rainfall on the 30th, 1.18. Lightest rainfall on 15th, 17th, 20th, 21st, 24th, 25th,

Total rainfall, 1.78 inches.

EXPLANATORY NOTES.—Weather, b, blue sky; o, overcast; r, rain; q, squally; m, misty; t, thunder; l, lightning; w, dew.

WIND.—1, light airs; 2, light breeze; 3, moderate breeze; 4, fresh breeze; 6, moderate gale

## FEBRUARY.

Date.	Barometer. Inches.	Solar Radiation.	Temperature	Hygrometer.			Wind.		
			Maximum.	Wet Bulb.	Dry Bulb.	Dew Point	Direction.	Force.	Days' Sunshine
			Minimum.						Rainfall.
1	29.94	55	50	36	38	33.3	S W	1	18
2	30.10	62	51.5	46	49	46.9	S S W	1	18
3	30.15	82	50	37	48	39.6	N W	1	18
4	30.54	61	49	45	45	42.8	S S W	1	18
5	30.53	53	48	36	45	43.9	S S W	1	18
6	30.30	55	52	48	48	46.9	S S W	1	18
7	30.00	62	53.5	48	50	48.0	S S W	1	18
8	30.30	73	50	41	41	34.3	W N W	1	18
9	29.94	60	51.5	43	45	43.9	S W	1	18
10	29.85	64	52	45	44	41.7	W	1	18
11	29.60	63	52.5	40	48	44.9	W	1	18
12	29.60	93	46	31	36	28.6	N N W	1	18
13	30.10	85	46.5	30	36	32.0	N W	1	18
14	30.25	55	46	34	35	32.2	S W	1	18
15	30.20	62	48	40	45	42.8	S S W	1	18
16	30.10	62	49	41	45	41.7	S S W	1	18
17	30.12	48	43	35	43	41.8	S S W	1	18
18	30.42	86	41	25	34	29.7	N E	1	18
19	30.60	82	40.5	24	32	26.0	S E	1	18
20	30.54	79	41	22	...	...	N E	1	18
21	30.40	77	40	28	31	27.0	N E	1	18
22	30.40	82	40	30	33	31.2	S E	1	18
23	30.50	62	46	35	35	29.7	S S W	1	18
24	29.73	94	48	35	38	45	N W	1	18
25	29.75	61	52	44	43	40.7	S S W	1	18
26	29.74	60	53	46	49	47.9	S S W	1	18
27	29.95	100	53.5	38	46	43.8	S W	1	18
28	29.96	94	48.5	38	40	38.7	W S W	1	18
									1.85

Total days on which sun shone, 16.

Total days on which rain fell, 13.

Total inches heaviest rainfall on the 17th, .82.

Lightest rainfall on 27th, .01.

Total rainfall, 1.85 inches.

## MARCH.

Date.	Barometer Inches.	Temperature		Hygrometer.			Wind. Direction.	Force.	State of Weather	Days' Sunshine	Rainfall.
		Solar Radiation.	Maximum.	Wet Bulb.	Dry Bulb.	Dew Point					
1	29.88	57	48	37	45	46	43.9	93	S W	2	.31
2	30.11	96	51	32	42	45	38.5	78	N W	1	..
3	30.28	123	50.5	35	38	41	34.2	77	S W	1	..
4	30.11	100	51	31	41	45	36.4	72	N W	1	..
5	30.40	63	48	39	38	40	38.4	84	S W	1	.04
6	29.78	90	51	33	41	47	34.3	61	S W	1	.09
7	29.98	65	47.5	37	37	39	34.4	84	S W	1	.05
8	29.61	61	49	40	47	49	44.8	86	S W	1	..
9	29.61	59	49	41	47	47	47	100	W S W	1	.12
10	29.73	86	52.5	46	46	49	42.8	79	W	1	.05
11	29.50	112	52	39	45	48	41.7	79	N W	1	..
12	29.70	71	50	38	44	48	39.6	73	S W	1	.68
13	29.25	97	49	37	40	45	34.2	66	S W	1	.01
14	29.60	81	48.5	38	42	46	37.4	73	S W	1	.14
15	29.54	109	48.5	31	41	45	36.4	72	S W	1	trace
16	29.92	106	50	28	38	41	34.2	77	N W	1	..
17	30.31	88	50	30	35	36	33.3	91	N W	1	..
18	30.40	109	50	40	41	44	37.5	77	W	1	..
19	30.41	95	52.5	45	42	45	38.5	78	S W	1	..
20	30.41	71	54	43	46	49	42.8	79	N E	1	..
21	30.41	103	53	33	47	51	42.8	74	N E	1	..
22	30.42	66	47	36	41	43	38.6	84	N E	1	..
23	30.52	103	56	34	41	43	38.6	84	N E	1	..
24	30.55	114	58	35	43	45	40.7	85	N E	1	..
25	30.25	112	63	34	37	38	35.6	91	N E	1	..
26	30.14	114	66	35	49	56	42.4	60	S E	1	..
27	30.22	116	66	37	43	46	39.6	79	N E	1	..
28	30.36	115	64	35	45	52	37.9	59	N E	1	..
29	30.35	103	61	38	38	40	35.4	84	S S E	1	..
30	30.00	113	65	46	45	50	39.7	68	S S E	1	.05
31	29.81	113	64	40	50	55	45.2	70	S	1	..

1.54

Total days on which sun shone, 25.

Total days on which rain fell, 10.

Total inches heaviest rainfall on the 12th. .68.

Lightest rainfall on 13th, .01.

Total rainfall, 1.54 inches.

## APRIL.

Date.	Barometer. Inches.	Solar Radiation.	Temperature		Hygrometer.			Wind.		State of Weather.	Days' Sunshine	Rainfall.
			Maximum.	Minimum.	Wet Bulb.	Dry Bulb.	Dew Point	Humidity.	Direction.			
1	30.12	117	66.5	37	48	52	43.9	74	S E	I	b	
2	30.00	121	67.5	41	49	53	45.0	74	S S E	I	b	
3	29.90	116	67	39	48	53	43.0	69	S W	I	b	
4	30.15	108	64.5	41	47	52	49.9	69	S W	I	b	
5	30.25	109	63	43	45	49	40.7	73	N E	I	b	0.4
6	30.10	100	59.5	44	47	50	43.8	80	E N E	I	o b	trace
7	30.09	99	58	44	49	50	47.9	93	N E	I	o b	
8	30.00	105	63	43	47	49	44.8	86	N W	I	o b	
9	30.05	100	62	40	52	56	48.2	75	S W	I	b o	
10	30.15	118	69	54	55	62	49.0	62	S S W	I	b o	1.5
11	30.00	109	67.5	47	57	62	52.7	70	S E	I	o	10
12	29.85	100	56	42	53	57	49.3	75	S W	I	o b	trace
13	29.90	113	59	46	44	49	38.6	67	S W	I	o b	0.3
14	29.65	93	56.5	44	48	51	44.9	80	S E	2	o	0.3
15	29.75	115	59.5	49	50	55	45.2	70	S W	I	o b	0.5
16	29.33	100	60	42	48	52	43.9	74	S W	2	b	0.4
17	29.50	118	58	38	50	54	46.1	74	W S W	I	b	trace
18	29.72	118	60	45	47	50	43.8	80	N N E	I	b o	'23
19	30.15	72	59.5	35	45	47	42.8	86	N E	I	b	
20	30.26	116	55	44	45	49	40.7	73	N E	I	o b	
21	30.15	113	60	56	44	47	40.6	79	E	I	b	
22	30.00	100	58.5	42	48	53	43.0	69	E	I	o b	
23	29.60	80	52	44	48	55	41.3	60	S E	I	o	20
24	29.62	114	59	45	46	53	39.0	59	S W	3	b	10
25	29.65	120	58.5	45	50	54	46.1	74	S W	I	b	58
26	29.66	113	57.5	40	49	50	47.9	93	S W	I	o b	22
27	29.66	119	58	47	50	54	46.1	74	S W	I	o b	07
28	29.99	117	61	40	51	56	46.3	70	N E	I	o b	..
29	30.20	122	65	52	55	60	50.6	71	S W	I	b	11
30	30.16	88	59	38	53	54	52.0	93	N E	I	o b	...
												2.05

Total days on which sun shone, 28.

Total days on which rain fell, 14.

Total inches heaviest rainfall on the 25th, .58. Lightest rainfall on 13th and 14th, 0.3.

Total rainfall, 2.05 inches.

## MAY.

Date.	Barometer. Inches.	Solar Radiation.	Temperature.		Hygrometer.			Wind.		State of Weather.	Days' Sunshine	Rainfall.
			Maximum.	Minimum.	Wet Bulb.	Dry Bulb.	Dew Point	Humidity.	Direction.			
1	30.45	102	57	38	45	51	38.8	63	N E	I	o o	I I I I I I I I I I I I
2	30.31	98	54.5	48	45	49	40.7	73	N E	I	o o	I I I I I I I I I I I I
3	29.95	109	58	44	50	54	46.1	74	W	I	b b	I I I I I I I I I I I I
4	29.95	123	57	38	47	54	40.1	59	W N W	I	b b	I I I I I I I I I I I I
5	30.00	117	58	47	45	51	38.8	63	W N W	I	b b	I I I I I I I I I I I I
6	29.80	118	63	43	48	53	43.0	69	S W	2	o o	I I I I I I I I I I I I
7	29.92	126	60.5	48	48	51	44.9	80	N W	I	b b	I I I I I I I I I I I I
8	30.10	102	58	49	50	52	48.0	86	S W	I	o o	I I I I I I I I I I I I
9	29.80	101	54	42.5	50	51	49.0	93	S W	I	o o	I I I I I I I I I I I I
10	29.75	105	58	43	49	54	44.1	69	S W	I	o b	I I I I I I I I I I I I
11	29.90	85	55.5	45	49	53	45.0	74	S W	I	o o	I I I I I I I I I I I I
12	30.13	117	58	39	46	53	39.0	59	N	I	b b	I I I I I I I I I I I I
13	30.20	116	60	48	50	55	44.4	65	W	I	b b	I I I I I I I I I I I I
14	30.00	110	60	50	51	56	46.3	70	S S W	2	o b	I I I I I I I I I I I I
15	29.90	86	63	51	54	59	49.5	71	S W	I	o o	I I I I I I I I I I I I
16	30.00	82	58	49	55	55	55.0	100	N E	I	o o	I I I I I I I I I I I I
17	30.25	90	58	43	50	52	48.0	86	N E	I	b o	I I I I I I I I I I I I
18	30.30	120	64	42	50	54	46.1	74	N E	I	b b	I I I I I I I I I I I I
19	30.35	118	52	34	42	48	35.4	62	N E	I	b b	I I I I I I I I I I I I
20	30.06	115	50	33	42	48	35.4	62	N E	I	b b	I I I I I I I I I I I I
21	30.05	117	55	35	42	48	35.4	62	N E	I	b b	I I I I I I I I I I I I
22	30.16	115	57	42	48	51	44.9	80	N E	I	b b	I I I I I I I I I I I I
23	30.33	62	52	44	48	50	45.9	86	N E	I	b o	I I I I I I I I I I I I
24	30.41	123	65	38	51	58	44.6	61	N E	I	b b	I I I I I I I I I I I I
25	30.23	113	67	45	49	59	40.1	49	W N W	I	b b	I I I I I I I I I I I I
26	29.91	114	55	42	46	55	37.4	52	N E	2	b b	I I I I I I I I I I I I
27	29.84	110	53	37	43	46	39.6	79	N E	2	o b	I I I I I I I I I I I I
28	29.63	110	54	41	48	55	41.3	60	W	I	b	I I I I I I I I I I I I
29	29.62	117	56	35	48	52	43.9	74	S W	I	o	I I I I I I I I I I I I
30	29.75	115	59	40	49	53	45.0	74	W S W	I	o b	I I I I I I I I I I I I
31	29.80	125	59	40	49	53	45.0	74	S W	I	o	I I I I I I I I I I I I

2.79

Total days on which sun shone, 30.

Total inches heaviest rainfall on the 29th, .84.

Total rainfall, 2.79 inches.

Total days on which rain fell, 13.

Lightest rainfall on 31st, .01.

## JUNE.

Date.	Barometer. Inches.	Solar Radiation.	Temperature.		Hygrometer.			Wind.		State of Weather.	Days' Sunshine	Rainfall.
			Maximum.	Minimum.	Wet Bulb.	Dry Bulb.	Dew Point	Humidity.	Direction.			
1	29.95	117	61	52	52	57	47.4	70	S W	I	b o	.10
2	29.70	116	61	51	55	60	50.6	71	S W	I	o o	.45
3	29.60	87	60	52	58	59	57.1	94	S W	I	o o	.63
4	29.85	82	62	53	58	59	57.1	94	S W	I	o o	.08
5	29.85	105	62	49	55	58	52.3	81	S W	I	o o	.45
6	29.90	77	53	46	50	53	47.0	80	N E	I	o o	.25
7	29.91	123	63	48	47	54	40.1	59	N W	I	b b	.08
8	30.10	107	62	51	55	60	50.6	71	W S W	I	o b	.08
9	29.95	115	65	52	55	58	52.3	81	W	I	o o	.08
10	29.96	98	60	48	52	61	44.1	54	S W	I	o o	.08
11	29.90	127	60	46	50	56	44.4	65	N W	I	b b	.25
12	30.05	124	65	47	53	59	47.7	66	N W	I	o b	.39
13	30.10	109	62	45	51	57	45.5	65	N W	I	o b	.08
14	30.30	125	71	52	57	64	51.2	63	N W	I	b b	.08
15	30.25	112	67	51	60	64	56.7	77	S W	I	b b	.08
16	30.30	127	69	50	51	57	45.5	65	S W	I	b b	.08
17	30.06	124	68	49	56	60	52.5	76	S W	I	o b	.08
18	29.87	105	61	42	51	56	46.3	70	S W	I	o o	.08
19	30.20	128	61	54	52	58	46.6	66	S W	I	b b	.08
20	30.10	113	64	45	58	60	56.2	88	S W	I	b b	.08
21	30.30	124	71	58	51	58	46.6	66	N W	I	b b	.08
22	30.25	131	70	53	59	65	54.1	68	S W	I	b b	.08
23	30.16	104	65	55	56	61	51.7	72	S W	I	o b	trace
24	30.10	110	64	54	53	61	46.0	58	W	I	o b	.08
25	30.25	131.5	70.5	60	60	63	57.5	82	S W	I	b b	.08
26	30.45	114	71.5	54	60	66	55.1	68	S W	I	b b	.08
27	30.45	125	72	50	56	60	52.5	76	N E	I	b b	.08
28	30.44	130	78	55	60	65	55.9	73	N E	I	b b	.08
29	30.50	131	79	51	58	64	53.0	67	N E	I	o b	.08
30	30.50	135	83	69	60	68	53.7	60	E S E	I	b	.08
												2.06

Total days on which sun shone, 28.

Total days on which rain fell, 8.

Total inches heaviest rainfall on the 4th, .63. Lightest rainfall on the 1st, 8th, 10th, 19th, .10 to .08

Total rainfall, 2.06 inches.

## JULY.

Date.	Barometer. Inches.	Solar Radiation.	Temperature.		Hygrometer.			Wind.		Days' Sunshine	Rainfall.	
			Maximum.	Minimum.	Wet Bulb.	Dry Bulb.	Dew Point	Humidity.	Direction.	Force.	State of Weather.	
1	30.42	135	86.5	67	62	72	54.5	54	E	I	b	I
2	30.30	125	73.5	58	65	70	61.1	73	S W	I	b	I
3	30.33	121	68	52	60	65	55.9	73	N W	I	oo	I
4	30.34	128	72.5	66	57	60	54.4	82	S W	I	bb	I
5	30.33	129	77.5	57	59	70	50.5	50	S W	I	bb	I
6	30.12	137	84	55	64	73	57.3	58	S	I	bb	I
7	30.15	129	68.5	51	57	65	50.4	59	S W	I	bb	I
8	30.20	123	67.5	55	57	64	51.2	63	S W	I	o b	I
9	29.91	110	66	54	60	65	55.9	73	S W	I	o b	I
10	29.50	96	64	53	58	62	54.6	77	S W	I	o b	I
11	29.45	122	68	54	57	63	57.9	67	S W	I	o b	I
12	29.44	119	67	53	59	63	55.6	77	S S W	I	o b	I
13	29.70	126	68	49	55	61	49.8	67	S S E	I	o b	I
14	29.75	127	71	56	56	59	53.3	82	S S W	I	o b	I
15	30.00	107	64	53	56	61	51.7	72	W	I	o b	I
16	29.95	108	66	57	60	63	57.5	82	S W	I	b	I
17	29.90	117	65	55	55	63	48.2	59	W	I	o	I
18	29.75	116	64	55	54	60	52.5	76	W	I	o b	I
19	29.90	119	66	54	57	62	52.7	72	S W	I	o	I
20	30.05	126	68	54	58	62	54.6	77	S W	I	o o	I
21	29.95	130	73	52	55	63	48.2	59	S W	I	o b	I
22	30.00	115	67	55	54	62	47.1	58	S W	I	o b	I
23	29.96	87	62	57	56	58	54.2	87	S W	I	..	.42
24	30.10	60	64	61	60	62	58.3	88	N E	I	o o	.03
25	30.12	131	72	55	59	65	54.1	68	S E	I	o	.32
26	30.04	118	72	53	60	65	55.9	73	N W	I	b	..
27	30.40	133	74	57	59	63	55.6	77	S W	I	b	..
28	30.50	118	74	60	60	67	54.4	64	N W	I	b	..
29	30.45	77	65	57	60	61	59.1	94	S E	I	b o	.25
30	29.94	125	70	59	58	63	53.8	72	N E	I	b	I
31	29.90	122	72	57	64	68	60.8	78	S W	I	b	I
												2.06

Total days on which sun shone, 28.

Total inches heaviest rainfall on the 22nd, 29th, .42

Total rainfall, 2.06 inches.

Total days on which rain fell, 14.

Lightest rainfall on the 19th, .02.

## AUGUST.

Date.	Barometer. Inches.	Solar Radiation.	Temperature		Hygrometer.			Wind.		Days' Sunshine	Rainfall
			Maximum.	Minimum.	Wet Bulb.	Dry Bulb.	Dew Point	Humidity.	Direction.		
1	29.73	131	71	52	61	63	59.3	88	S W	I I I I I I I I I I I I	.48
2	29.50	117	64	48	60	64	56.7	77	S W	b o o b o o b o o b o o	.04
3	29.45	119	66	51	55	60	50.6	71	S W	b b o b o b o b o b o b	.35
4	29.65	117	67	51	59	64	54.8	72	S W	b b o b o b o b o b o b	.04
5	29.75	124	68	53	57	63	51.9	67	S W	I I I I I I I I I I I I	.01
6	29.65	89	69	46	57	57	57	100	S	I I I I I I I I I I I I	.05
7	29.75	124	67	57	58	62	54.6	77	W	I I I I I I I I I I I I	.04
8	29.56	123	70	54	61	65	57.7	78	S W	I I I I I I I I I I I I	.13
9	29.65	125	67	54	57	62	52.7	72	N W	I I I I I I I I I I I I	.12
10	29.80	120	66	49	55	62	49.0	62	N W	I I I I I I I I I I I I	.03
11	30.00	120	64.5	56	54	59	49.5	71	N W	I I I I I I I I I I I I	.01
12	29.95	122	64	57	56	61	51.7	72	S W	I I I I I I I I I I I I	.18
13	29.85	126	67	60	54	60	46.8	62	N W	I I I I I I I I I I I I	.01
14	29.65	126	69	54	61	64	58.5	82	S W	I I I I I I I I I I I I	.12
15	29.40	120	65	54	55	61	49.8	67	S W	I I I I I I I I I I I I	.01
16	29.64	93	62	47	55	59	51.4	76	N N W	I I I I I I I I I I I I	.12
17	29.98	118	62	51	54	60	48.7	66	W	I I I I I I I I I I I I	.01
18	29.98	116	63	55	54	60	48.7	66	N W	I I I I I I I I I I I I	.12
19	29.90	90	62.5	52	56	60	52.5	76	S W	I I I I I I I I I I I I	.01
20	29.75	122	62	45	51	58	44.7	61	N W	I I I I I I I I I I I I	.12
21	29.70	86	62.5	50	53	56	50.2	81	S W	I I I I I I I I I I I I	.01
22	29.65	122	69	57	55	59	51.4	76	S W	I I I I I I I I I I I I	.12
23	29.68	68	60	53	57	57	57	100	N E	I I I I I I I I I I I I	.18
24	29.90	75	59.5	54	54	55	53.0	93	N E	I I I I I I I I I I I I	.25
25	29.95	65	59	55	55	55	55	100	E	I I I I I I I I I I I I	.42
26	29.80	126	72.5	53	61	62	60.1	94	S	I I I I I I I I I I I I	.01
27	29.94	117	70	56	58	60	56.2	88	N W	I I I I I I I I I I I I	trace
28	30.10	116	67.5	51	57	59	55.2	88	N W	I I I I I I I I I I I I	.01
29	30.15	113	65	46	54	57	54	100	N E	I I I I I I I I I I I I	.01
30	30.11	115	71	52	58	62	54.6	77	W	I I I I I I I I I I I I	.01
31	30.00	109	69	54	56	58	54.2	87	N W	I I I I I I I I I I I I	.01
											2.27

Total days on which sun shone, 28.

Total days on which rain fell, 15.

Total inches heaviest rainfall on the 2nd, .48.

Lightest rainfall on 8th &amp; 26th, .01.

Total rainfall, 2.27 inches.

## SEPTEMBER.

Date.	Barometer. Inches.	Solar Radiation.	Temperature.		Hygrometer.			Wind.		State of Weather.	Days' Sunshine	Rainfall.
			Maximum.	Minimum.	Wet Bulb.	Dry Bulb.	Dew Point	Humidity.	Direction.			
1	30.00	129	69	52	54	58	50.4	76	N W	I	I	..
2	30.00	115	72	51	57	59	55.2	88	E	I	I	.03
3	29.83	74	56	43	50	52	48.0	86	E N E	I	I	.02
4	29.95	110	62	40	53	55	51.1	87	N E	I	I	..
5	29.95	113	61	45	49	53	45	74	N E	I	I	.16
6	29.95	116	61	44	52	55	49.1	81	N W	I	I	..
7	30.00	110	61	48	52	56	48.2	75	W N W	I	I	1.02
8	29.75	105	59	45	50	53	47.0	80	N E	I	I	..
9	30.10	111	65	44	53	58	48.5	71	N	I	I	..
10	30.30	104	64	40	45	52	37.9	59	N E	I	I	..
11	30.21	115	67	56	51	54	48.1	80	N E	I	I	..
12	30.25	103	65	45	57	59	55.2	88	N E	I	I	..
13	30.30	127	61.5	49	50	53	47.0	80	N E	I	I	..
14	30.29	105	65	51	53	55	57.1	87	N E	I	I	..
15	30.25	104.5	65.5	51	54	56	52.1	87	N E	I	I	..
16	30.25	67	58	52	53	56	50.2	81	N N E	I	I	trace
17	30.20	76	59	53	53	56	50.2	81	N E	I	I	..
18	30.10	78	61	51	55	58	52.3	81	N E	I	I	..
19	30.00	89	61	49	49	56	42.4	60	N E	I	I	..
20	30.00	104	65	52	55	55	55	100	N	I	I	..
21	29.86	66	57	49	53	55	51.1	87	N N E	I	I	..
22	29.74	61	55	54	51	53	49.0	86	N E	I	I	.18
23	29.60	81	61	54	57	59	55.2	88	E	I	I	.58
24	29.65	82	62	51	58	60	56.2	88	N E	I	I	.57
25	29.55	62	55	51	53	53	53	100	N E	I	I	.62
26	29.70	95	60	45	51	54	48.1	80	N E	I	I	..
27	30.00	81	55	37	49	51	46.9	86	N E	I	I	..
28	30.20	92	56	37	48	53	43.0	69	E	I	I	..
29	30.20	108	58	37	49	54	44.1	69	N	I	I	..
30	30.31	107	58	43	41	43	38.6	84	N	I	I	..
							-					3.18

Total days on which sun shone, 23.

Total days on which rain fell, 8.

Total inches heaviest rainfall on the 7th, 1.02.

Lightest rainfall on the 3rd, .02.

Total rainfall, 3.18 inches.

## OCTOBER.

Date.	Barometer. Inches.	Solar Radiation.	Temperature.		Hygrometer.			Wind.		Days' Sunshine	Rainfall.
			Maximum.	Minimum.	Wet Bulb.	Dry Bulb.	Dew Point.	Humidity.	Direction.	Force.	
1	30.35	102	58	41	41	43	38.6	84	N	I	..
2	30.35	114	59	42	48	50	45.9	86	N E	I	..
3	30.15	89	56	48	48	50	45.9	86	N E	I	..
4	30.05	75	57	51	47	50	43.8	80	N E	I	..
5	29.95	79	49	59	51	53	49.0	86	N E	I	trace
6	29.85	65	55	51	51	53	49.0	86	N E	I	.12
7	29.85	104	60	43	53	55	51.0	87	N E	I	.01
8	29.95	71	54	53	49	50	47.9	93	N	I	..
9	30.05	81	57	52	50	50	50	100	S W	I	.15
10	29.98	66	59	56	52	52	52	100	S W	I	.03
11	30.13	82	64	57	59	59	59	100	S W	I	..
12	30.20	84	63	46	58	59	57.1	94	S W	I	..
13	30.10	89	60	48	53	53	53	100	S W	I	.04
14	29.95	94	54	35	48	51	44.9	80	N E	I	..
15	30.00	86	52	42	41	45	36.4	72	N E	I	.01
16	30.04	62	51	48	43	46	39.6	79	N E	I	..
17	30.00	67	50	42	44	44	44	100	N E	I	..
18	29.65	66	49	41	45	47	42.8	86	N E	I	..
19	29.50	60	46	41	42	45	38.5	78	N E	I	.03
20	29.35	64	50	42	41	43	38.6	84	N E	I	.05
21	29.30	62	47	31	45	46	43.9	93	N E	I	..
22	29.60	90	50	34	35	36	33.5	91	N E	I	..
23	29.70	65	56	49	42	46	37.4	73	S E	I	.27
24	29.05	100	62	49	56	56	56	100	S W	6	.30
25	28.90	88	58	49	51	55	47.2	75	S W	6	.08
26	29.30	74	57	47	51	53	49.0	86	S W	3	.42
27	29.00	96	56	46	53	54	52.0	93	S W	I	.36
28	29.45	62	57	44	49	50	47.9	93	S W	I	.35
29	29.40	85	55	44	47	48	45.9	93	S W	I	.21
30	29.60	51	54	43	49	51	46.9	86	S W	I	.25
31	29.80	62	60	48	57	58	56.1	93	S W	I	.09
											3.78

Total days on which sun shone, 26.

Total days on which rain fell, 18.

Total inches heaviest rainfall on the 30th, 1.25. Lightest rainfall on 4th and 15th, .01.

Total rainfall, 3.78 inches.

## NOVEMBER.

Date.	Barometer. Inches.	Solar Radiation.	Temperature		Hygrometer.			Wind Direction.	Wind Force.	State of Weather.	Days' Sunshine	Rainfall.
			Maximum.	Minimum.	Wet Bulb.	Dry Bulb.	Dew Point					
1	29.80	86	58	55	55	56	54.1	93	2		I	.30
2	29.60	60	58	55	57	59	55.2	88	1		I	.01
3	29.50	74	62	47	56	58	54.2	87	1		I	.21
4	29.75	67	56	51	51	52	50.0	93	1		I	.03
5	29.65	66	57	40	55	56	54.1	93	1		I	
6	30.00	79	56	46	45	46	43.9	93	W			
7	29.64	69	57	44	52	55	49.1	81	W S W	I	I	.51
8	29.45	61	51	43	43	47	38.5	73	W S W	I	I	.17
9	29.50	60	53	43	40	42	37.5	85	S W	I	I	.01
10	29.40	65	54	41	47	48	45.9	93	W S W	I	I	.15
11	29.25	66	51	44	43	44	41.8	92	S W	I	I	.20
12	28.95	48	45.5	40	45	45	45	100	S W	4		.87
13	29.50	58	52	44	41	44	37.5	77	S W	4		1.15
14	28.86	52	52.5	40	49	49	49	100	S W	2		.44
15	29.10	54	48	38	43	44	41.8	92	W	I		.05
16	29.60	102	52	45	43	45	40.7	85	S	I	b	trace
17	29.89	93	55	41	49	52	45.9	80	S S W	I	b	
18	29.90	98	51	47	45	46	43.9	93	S W	I	b	
19	30.05	64	52	44	50	52	48.0	86	S W	I	o	.02
20	30.00	58	50	35	52	53	51.0	93	S W	I	o	
21	30.25	96	46	37	39	40	37.7	92	W S W	I	o	
22	30.15	72	52	45	45	48	41.7	79	S W	I	o	.01
23	30.15	50	48	36	45	46	43.9	93	N E	I		
24	30.20	82	49	40	44	48	39.6	73	N E	I	b	
25	30.20	79	49	36	45	48	41.7	79	N E	I	o	
26	30.20	44	42.5	41	37	39	34.4	84	N	I	o	
27	30.25	46	43	39	41	43	38.6	84	E N E	I	o	
28	30.25	49	45	41	39	41	36.5	84	N E	I	o	
29	30.15	55	49	32	44	45	42.8	92	S	I	o	
30	30.35	56	45	26	35	35	35	100	N E	I	o b	
												4.14

Total days on which sun shone, 20.

Total days on which rain fell, 16.

Total inches heaviest rainfall on the 13th, 1.15.

Lightest rainfall on 2nd, 5th, 9th, 22nd, .01.

Total rainfall, 4.14 inches.

## DECEMBER.

Date.	Barometer Inches.	Solar Radiation.	Temperature.		Hygrometer.				Wind.	Days' Sunshine.	Rainfall.
			Maximum.	Minimum.	Wet Bulb.	Dry Bulb.	Dew Point.	Humidity.			
1	30.35	67	36.5	26	..	34	34	100	N N E E	I I I I	.22
2	30.25	52	43	40	34	34	39.8	92	N N E E	I I I I	trace.
3	29.95	82	44	35	41	42	37.7	92	N N E E	I I I I	trace.
4	29.60	56	41	35	39	40	37.7	92	N N E E	I I I I	.01
5	29.75	67	37	27	..	..	..	..	N E	I I I I	.36
6	29.80	66	42	39	35	37	32.2	83	S W	I I I I	trace.
7	29.64	58	50	39	45	45	45	100	S E	I I I I	.26
8	29.75	82	49	31	41	42	39.8	92	N W	I I I I	.42
9	29.90	54	46	35	37	38	35.6	91	S E	I I I I	.05
10	29.85	50	49	46	44	46	41.7	86	S W	I I I I	.01
11	29.92	61	50	40	48	49	46.9	93	S W	I I I I	..
12	29.95	69	51	45	45	46	43.9	93	S W	I I I I	..
13	29.95	63	53	50	49	52	45.9	80	S W	I I I I	.04
14	30.10	54	50	42	50	50	50	100	S W	I I I I	.04
15	29.85	93	52	41	40	44	35.3	71	N W	I I I I	..
16	29.95	83	51.5	41	49	52	45.9	80	N N E	I I I I	.01
17	29.90	65	51	47	47	47	47	100	S W	I I I I	.16
18	29.40	85	47.5	42	45	47	42.8	86	W	I I I I	.07
19	29.35	95	45	39	40	44	35.3	71	N W	I I I I	.04
20	29.90	87	45	31	38	41	34.2	77	N	I I I I	.04
21	29.91	53	51	48	43	43	43	100	S W	I I I I	.27
22	29.25	82	44	37	41	46	35.3	67	S W	I I I I	..
23	30.05	69	49	37	39	41	36.5	84	S W	I I I I	.24
24	29.96	60	49	42	48	48	48	100	S	I I I I	..
25	30.30	62	48.5	45	43	43	43	100	S S W	I I I I	..
26	30.40	50	49	33	44	47	40.6	79	S W	I I I I	.05
27	30.50	94	45.5	35	34	36	31.0	82	N	I I I I	.01
28	30.30	74	49.5	39	39	41	36.5	84	N W	I I I I	..
29	29.25	92	52.5	32	36	41	27.7	64	S W	I I I I	.01
30	29.21	91	38	28	32	35	27.2	72	N W	I I I I	..
31	29.55	85	35.5	27	34.8	34	27.9	78	N W	I I I I	..
											2.28

Total days on which sun shone, 26.

Total days on which rain fell, 16.

Total inches heaviest rainfall on the 14th, .42.

Lightest rainfall on 16th, 17th, 29th, .01.

Total rainfall, 2.28.

1893	Rainfall	...	...	...	...	18.81	inches.
1894	"	...	...	...	...	29.78	"
1894	"	in excess of 1893			...	10.97	"



TABLES  
OF  
BIRTHS AND DEATHS.

**TABLE OF BIRTHS**  
 REGISTERED IN THE FOUR DIVISIONS OF THE URBAN  
 SANITARY DISTRICT OF GLOUCESTER IN 1894.

	MALES	FEMALES
South Hamlet .....	715 .....	361 .....
St. Nicholas .....	225 .....	114 .....
St. John's .....	169 .....	88 .....
Kingsholm .....	107 .....	56 .....
	—	—
Total	1216	619
		597

**TABLE OF DEATHS**

*From some forms of Disease in the District, for the last ten years;*

*Also number of Births, and deaths from all Diseases for same period.*

	1885	1886	1887	1888	1889	1890	1891	1892	1893	1894
Small Pox ...	—	—	I	—	—	—	—	—	—	—
Scarlet Fever ...	3	I	7	I	—	—	—	9	3	2
Whooping Cough ...	23	8	2	10	26	2	18	3	6	12
Measles ...	6	—	5	57	2	23	16	3	36	3
Enteric Fever...	2	8	7	8	8	4	5	3	2	7
Erysipelas ...	I	—	3	I	3	2	2	I	—	—
Puerperal Fever ...	3	—	4	I	0	I	—	3	2	I
Diarrhœa ...	11	24	12	10	14	19	11	11	22	16
Diphtheria ...	4	—	2	2	2	10	23	33	12	7
Pyoemia ...	—	—	—	2	—	—	2	—	—	—
Croup ...	12	4	3	3	I	4	3	6	2	2
Bronchitis, &c.	133	79	91	71	86	130	184	110	163	90
Births ...	1231	1304	1171	1197	1250	1228	1284	1255	1254	1216
Deaths from all causes	699	605	568	637	650	676	807	716	807	618

## POR T SANITARY AUTHORITY.

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MR. CHAIRMAN AND GENTLEMEN,

Since my last Report, this Authority, I am pleased to say, has been constituted a permanent one by order of the Local Government Board, and has not now, as was formerly the case, to be re-appointed from year to year.

The Riparian districts of Thornbury, Dursley Rural, Wheatenhurst and Gloucester Rural, are contributary, and in the Gloucester City Authority is vested the management of all the duties appertaining to the Port Sanitary work. The annual contribution from the various Authorities has also been fixed, Thornbury contributing 30 per cent; Dursley Rural, 3 per cent; Wheatenhurst, 7 per cent; Gloucester Rural, 15 per cent; and Gloucester City, 45 per cent.

The Jurisdiction of the Authority is also extended considerably, for as formerly it only included the Gloucester and Berkeley Canal, and the Docks at Sharpness, it now extends as far as the Bristol District at Kingroad at one end, and the Severn Bridge at the other. This includes the Canal and Docks as before, and also the whole of the waterway and south side of the Severn estuary. The north bank is not included, but comes under the Chepstow and other Authorities.

This latter is of minor importance, as only small craft enter these ports, and no foreign vessels go there. So that all large vessels, and all foreign vessels come under the Gloucester Authority.

According to the special arrangements made between the Authorities of Gloucester and Bristol, (and sanctioned by the Local Government Board,) the latter have agreed for a fixed charge, and for a certain part of the year, to examine all Sharpness and Gloucester bound vessels which come to anchor at Kingroad, and to deal with any cases of sickness that may be found on board ship, at the time of examination. Also to disinfect such vessels as may require it, and supply them with water in lieu of any that might under their order be discharged at Kingroad, or on the approach of the vessel into the roads.

All Sharpness and Gloucester bound vessels are also examined at Sharpness, disinfected when necessary, and are again examined at Gloucester on their arrival, and kept under observation while at Gloucester.

The class of vessels coming into our ports carry merchandise, and no passenger vessels trade in our waters.

The Infectious Diseases Notification Act has been adopted by the Port Sanitary Authority, since my last Report, so that the person in charge of every vessel, has to notify to me all the Infectious cases occurring on board. This gives us the advantage

that we are apprised by them under a penalty, of the existence of disease which they might desire to conceal; and the mere fact that our officials might overlook a case of disease does not exonerate the master from the penalties of the Act.

During the past year three hundred and sixty five vessels have been examined in the tidal basin at Sharpness, previously to admission into the docks, and no person has been allowed to land until after such examination. Of these, two hundred and nineteen were steamers, and one hundred and forty six were sailing vessels.

Where disinfection was considered necessary, this was done in the tidal basin, and where the water was at all suspicious, it was discharged before the vessel entered the docks. In one case, the schooner Fanny arrived from St. Malo, bringing 140 casks of water for ballast, this was discharged into the tidal basin before the ship came into dock.

The ships were generally in good order, and no case of infectious disease was found on board.

The small vessels coming into the smaller or old dock are also kept under observation, but as no foreign trading vessel enters there, such observation does not need to be so strict. Should any home (British) port be found infected at any time, the vessels entering this dock would be carefully examined and dealt with in the same way as those coming in at the large entrance.

I here give a list in detail, of the ships examined during the year.

Should any disease be found on board any vessel, we are in a position to deal with it, as the hospital accommodation is sufficient for any cases likely to occur.

I may mention that should any death occur from any infectious disease, the Cardiff Authority have agreed to cremate bodies for us in their crematorium at Flat Holme, for a fixed charge, and the Berkeley Authorities are willing to allow burial at their cemetery.

I have the honour to be

Yours faithfully,

JOHN CAMPBELL, M.D.

*Port Medical Officer of Health.*

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## VESSELS INSPECTED AT SHARPNESS IN 1894.

January	1 ... Ship "Earl of Zetland" from Havre
"	1 ... Barque "Vellejo" from Havre
"	8 ... S.S. "Teviot" from Alexandria
"	8 ... S.S. "B. Granger" from Galatz
"	9 ... S.S. "Wm. Symington" from Novorossisk
"	9 ... S.S. "Gwendoline" from Nicolaieff
"	10 ... S.S. "Albula" from Novorossisk
"	10 ... Barque "Favourit" from Cronstadt
"	11 ... S.S. "Ariadne" from Sevastopol
"	13 ... S.S. "Kathleen" from Nicolaieff
"	13 ... S.S. "Adolf" from Windal
"	15 ... S.S. "Echo" from Hamburg
"	15 ... S.S. "Medtzing" from Dantzig
"	16 .. S.S. "Hero" from Hamburg
"	16 ... Schooner "Lilly" from Christiana
"	23 ... Barque "Kelverdale" from St. John
"	26 ... S.S. "Nether Holme" from Alexandria
February	4 .. S.S. "Hero" from Hamburg
"	6 ... S.S. "James Westoll" from Novorossisk
"	6 ... S.S. "Cartaga Nova" from Alexandria
"	8 ... S.S. "Stranton" from Sulina
"	9 ... Ketch "Orange Blossom" from Quimper
"	12 ... S.S. "Sylvia" from Theodocia
"	15 ... S.S. "Echo" from Rotterdam
"	16 ... S.S. "Marion Lee" from Hamburg
"	18 ... S.S. "Welbury" from Alexandria
"	19 ... S.S. "Ganges" from Alexandria
"	19 ... S.S. "Wickham" from Sevastopol
"	23 ... S.S. "Shakespear" from Sulina
"	23 ... Ship "Bernadotte" from Pensacola
"	24 ... S.S. "Leo" from Alexandria
"	25 ... Barque "Greenock" from Pensacola
March	3 ... S.S. "Hero" from Hamburg
"	4 ... S.S. "N. R. Parlins" from Antwerp
"	5 ... S.S. "Marie" from Sevastopol
"	6 ... S.S. "Buckminster" from Novorossisk
"	6 ... S.S. "Pallion" from Sulina
"	6 ... S.S. "St. Donats" from Kustendjie
"	9 ... S.S. "Nordstrand" from Libau
"	10 ... S.S. "Magnus Mail" from Novorossisk
"	12 ... S.S. "Zoe" from Sevastopol
"	16 ... S.S. "Echo" from Hamburg

March	19	... S.S. "Alexandra" from Rosario
"	19	... Barque "Choice" from Pensacola
"	20	... Barque "Arizona" from Buenos Ayres
"	22	... S.S. "Hero" from Hamburg
"	22	... Ship "Clan Mackenzie" from Havre
"	23	... S.S. "Westbrook" from Nicolaieff
"	23	... Schooner "Lile" from Rouen
"	26	... S.S. "Thistle" from Antwerp
"	27	... S.S. "Agnes Otto" from Galatz
April	1	... Ketch "Ada" from Jersey
"	2	... S.S. "Heligoland" from Hamburg
"	2	... Schooner "Alfred" from Bayonne
"	3	... S.S. "Ben Chine" from Nicolaieff
"	3	... Barque "West Glen" from Talcahuano
"	6	... S.S. "Thurston" from Sevastopol
"	8	... S.S. "Sarmatia" from Buenos Ayres
"	8	... S.S. "Echo" from Hamburg
"	10	... Barque "Kaja" from Fredrickshald
"	16	... S.S. "Marian" from Nicolaieff
"	17	... S.S. "Coronet" from Poti
"	18	... S.S. "Hero" from Hamburg
"	18	... Barque "Ophelia" from Portland (Or.)
"	19	... S.S. "Martha" from Dantzig
"	22	... S.S. "Thistle" from Antwerp
"	22	... Barque "Concordia" from Christiania
"	23	... S.S. "Echo" from Hamburg
"	23	... Barque "Ascalon" from Fredrickshald
"	24	... Sloop "Risk" from Guernsey
"	26	... S.S. "Clio" from Hamburg
May	2	... " " "Hero" from Hamburg
"	2	... " " "Marie" from Skutskar
"	2	... " " "Onega" from Alexandria
"	2	... " " "Frogmore" from Ibrilil and Galatz
"	3	... " " "Agathe" from Libau
"	4	... " " "Wally" from Nicolaieff
"	4	... " " "Stanley" from Nicolaieff
"	4	... " " "Monmouthshire" from Domsjo
"	4	... Barque "Helena" from Fredrikstad
"	6	... Ship "Z. Ring" from St. John
"	9	... S.S. "Normand" from Treport
"	10	... " " "Cairn Glen" from Diamante
"	14	... " " "Echo" from Hamburg
"	15	... " " "Clara" from Marionople
"	16	... Barque "Solglyt" from Tacoma
"	17	... S.S. "Chatborn" from Yeisk
"	17	... " " "Cornelia" from Gefle
"	19	... " " "Hero" from Hamburg
"	19	... " " "Norden" from Nicolaieff
"	19	... " " "Scoresby" from Gefle

May	19	.. S.S. "Runo" from Abo
"	19	.. Barque "Magnet" from Rosario
"	20	.. , "Rollo" from Rosario
"	21	.. S.S. "Ocklands" from Rosario
"	22	.. , "J. Y. Short" from Marianople
"	22	.. Schooner "Atka" from Abo
"	22	.. , "Pluvier" from Groningen
"	25	.. Brig "Meeden" from Groningen
"	31	.. S.S. "Fort William" from St. John's
June	1	.. , "Milo" from Pitea and Safle
"	2	.. , "Canton" from Buenos Ayres
"	2	.. , "Roddam" from Darien
"	2	.. , "Foscolia" from Kilia
"	2	.. Barque "Angelo P." from Buenos Ayres
"	3	.. Schooner "Romona" from Rosario
"	7	.. S.S. "Hero" from Hamburg
"	7	.. , "Rennie" from Sandvik
"	7	.. , "Regnant" from Nicolaieff
"	8	.. , "Tynemouth" from Wyburg
"	9	.. , "Echo" from Hamburg
"	11	.. , "Planet" from Rouen
"	14	.. , "Cairnross" from Tundsvalls Fagervik
"	16	.. B.K. "Geronima Bianchi" from San Nicolas
"	16	.. , "Tanjore" from La Plata
"	16	.. , "Mercur" from La Plata
"	17	.. S.S. "Fairfield" from Ulcaborg
"	17	.. , "Fido" from St. Petersburg
"	17	.. Schooner "Venus" from Helsingborg
"	18	.. B.K. "Coramandel" from Tacoma
"	18	.. S.S. "Imbros" from Alexandria
"	19	.. Ship "Vanloo" from St. John's
"	19	.. S.S. "Isabel" from Pitea
"	21	.. , "Sam Handford" from Taganrog
"	21	.. , "Amethyst" from Havre
"	21	.. Schooner "Agda" from Skonrik
"	21	.. , "Edward Arthur" from Koenigsberg
"	22	.. S.S. "Hero" from Hamburg
"	23	.. Schooner "Sunny South" from Rosario
"	25	.. Ship "Holyrood" from Havre
"	29	.. S.S. "Ivy" from Archangel
"	29	.. , "Sea Gull" from Archangel
"	30	.. , "Echo" from Hamburg
"	30	.. , "Acaster" from Simo
July	1	.. , "Knarwater" from Riga
"	1	.. B.K. "Guiseppe Pignone" from Bahia Blanca
"	1	.. S.S. "Pencalenick" from Taganrog
"	2	.. , "Micmac" from St. John's
"	2	.. B.K. "Christiane" from Buenos Ayres
"	2	.. Ship "Kinross-shire" from Dunkirk

July	2 ... Ship "Creedmoor" from St. John's
"	2 ... B.K. "Attila" from Halifax
"	3 ... "Betsy and Arnold" from Bay Verte
"	3 ... "Duke of Argyll" from Pacoma
"	3 ... Dandy "Hobah" from Oporto
"	3 ... Schooner "Nesta" from Dantzig
"	4 ... B.K. "Parenti" from San Lorenzo
"	4 ... S.S. "Atalanta" from Archangel
"	5 ... "Dunsley" from Taganrog
"	5 ... "George Pyman" from Rosario
"	5 ... "Dora" from St. John's
"	6 ... "Mulgrave" from Galatz
"	8 ... "Ravensheugh" from Montreal
"	9 ... "Careloch" from Riga
"	10 ... "Hero" from Hamburg
"	15 ... B.K. "Brodrine" from Shedia
"	15 ... "Weser" from Rosario
"	15 ... "Hebe" from Bersimis
"	16 ... "Martha C. Craig" from Rosario
"	17 ... S.S. "Penwith" from Marianople
"	17 ... "Cheniston" from Alexandria
"	18 ... B.K. "Portinscale" from Rosario
"	18 ... S.S. "Leo" from Odessa
"	18 ... B.K. "Truro" from Chatham, N.B.
"	19 .. Schooner "Grei" from Savannah
"	19 ... S.S. "Aeon" from Archangel
"	19 ... B.K. "Lepanto" from Buenos Ayres
"	20 ... S.S. "Torridon" from Nicolaieff
"	20 ... B.K. "Highflier" from Campbellton
"	20 ... B.K. "Julie" from Bay Verte
"	21 ... S.S. "Waterloo" from Galatz
"	21 ... "Treleigh" from Rouen
"	21 .. "Mimosa" from Onega
"	23 ... "Mutual" from Taganrog
"	23 ... "Oswald" from Marianople
"	23 ... "Echo" from Hamburg
"	23 ... "Clio" from Flushing
"	24 ... "Baines Hawkins" from Simo
"	26 .. Schooner "Lousie Bell" from Treport
"	30 ... S.S. "Aberthaw" from Geffle
"	30 ... B.K. "Congo" from Archangel
"	31 ... Schooner "Falke" from Groningen
August	1 ... S.S. "Fulham" from Odessa
"	1 ... "Caffila" from Odessa
"	1 ... Schooner "Shadnoi" from Halmstad
"	1 ... S.S. "Lochiel" from Taganrog
"	1 ... Ship "New City" from St. John's
"	1 ... B.K. "Vigland" from Rosario
"	2 ... S.S. "Hero" from Hamburg

August	2 ... Brig "Bonanza" from St. John's
"	2 ... S.S. "Cosmopolitan" from Novorossisk
"	2 ... B.K. "Lusanne" from Bay Verte
"	3 ... Schooner "Margret and Mary" from Halmstad
"	3 ... Ketch "Incertain" from Havre
"	3 ... S.S. "Melrose Abbey" from Archangel
"	4 ... B.K. "Raegvig" from Rosario
"	4 ... "Rimafixe" from Rosario
"	5 ... S.S. "Hartburn" from Nicolaieff
"	8 ... "Johan Siem" from St. Petersburg
"	13 ... B.K. "Emma Johanna" from Memel
"	13 ... S.S. "Clio" from Antwerp & Rotterdam, <i>via</i> Plymouth
"	14 ... "Harold" from Rosario
"	15 ... "Ardrishaig" from Archangel and Kem
"	16 ... B.K. "Eritero" from Buenos Ayres
"	16 ... S.S. "Imbros" from Alexandria
"	17 ... "Aros" from Archangel
"	17 ... B.K. "James L. Harway" from Picton, N.S.
"	17 ... Ship "Marguerite" from Bersimis
"	17 ... B.K. "Arcangelo" from Montevideo
"	17 ... S.S. "Cerigo" from Temriuk
"	18 ... "Echo" from Hamburg
"	20 ... "Dewsland" from Nicolaieff
"	20 ... Schooner "Germaine" from Bourdeaux
"	21 ... B.K. "British America" from Parrsboro'
"	22 ... S.S. "Richard Kelsall" from Taganrog
"	26 ... "Bertha" from Soderhamn
"	27 ... "Hero" from Hamburg
"	27 ... "Nord" from Sundsvall and Stocka
"	28 ... "Knarwater" from Riga
"	28 ... "Newbridge" from Onega
"	29 ... "Manin" from La Plata
"	29 ... Schooner "Christian" from Halmstad
"	30 ... S.S. "Redcar" from Ghenitchesk
"	30 ... Ship "Giulia A." from Rosario and La Plata
"	31 ... S.S. "Sir Garnet Wolseley" from Pensacola
September	1 ... "Clio" from Antwerp & Rotterdam, <i>via</i> Plymouth
"	2 ... "Sam Handford" from Taganrog
"	3 ... "Rayner" from Archangel
"	3 ... "Neutral" from Geffle
"	4 ... "Imperial" from Trangsund
"	4 ... Schooner "Pauline and Marie" from Treport
"	6 ... "Sprint" from Groningen & Amsterdam
"	7 ... Ketch "Behring" from Havre
"	7 ... Schooner "Fanny" from St. Malo
"	12 ... S.S. "Brenner" from Nicolaieff
"	12 ... B.K. "Due Virginie" from Calabanardo
"	13 ... S.S. "Ituna" from Konigsberg
"	13 ... "Loyal" from Soroka

September	13	... B.K. "Gloria" from Buenos Ayres
	13	... , "Johan Irgens" from Rosario
	13	... S.S. "Widdrington" from Alexandria
	13	... Ship "Dolbadern Castle" from San Francisco
	13	... Barque "Robertsfors" from Mirimichi
	14	... S.S. "Comorin" from Constadt
	14	... , "Marie Jebsen" from Skutskar and Geffle
	14	... B.K. "Amanda" from Buenos Ayres
	15	... , "Cinque" from Buenos Ayres
	16	... S.S. "Hero" from Antwerp & Rotterdam, <i>via</i> Plymouth
	16	... , "Peeress" from Odessa
	17	... , "Glenisle" from Kemi
	17	... , "Everest" from Sulina
	18	... , "Echo" from Hamburg
	18	... B.K. "Armonia" from Buenos Ayres
	18	... , "Alumina" from Rosario
	18	... S.S. "Amie" from Taganrog
	18	... Schooner "Ziba" from Drammen
	19	... S.S. "Thomas Allen" from Onega
	19	... Schooner "Maren" from Halmstad
	21	... S.S. "Sir Walter Raleigh" from Buenos Ayres
	26	... , "Mandalay" from Nicolaieff
	26	... , "Sandhill" from Riga
	26	... B.K. "Egeria" from St. John's
	27	... S.S. "Cleveland" from Taganrog
	29	... , "Stream Fisher" from Rouen
	29	... Schooner "Erica" from Hernosand
	29	... B.K. "Turist" from Rosario
	30	... S.S. "Codoxton" from Odessa
October	3	... Schooner "Herbert" from Halmstad
	3	... , "Anna Charlotte" from Cronstadt
	3	... , "Resolute" from Konigsberg
	5	... , "Margrethe" from Pilau
	10	... S.S. "Hero" from Hamburg
	10	... Schooner "Germania" from Rotterdam
	10	... , "Koenigsberg" from Koenigsberg
	11	... S.S. "Nicosian" from Philippoville
	11	... B.K. "Woodville" from Rosario
	11	... , "Frederick W. Jebens" from Dantzig
	12	... S.S. "Dalbeattie" from Archangel
	12	... , "Milo" from Taganrog
	12	... B.K. "Glen Grant" from Apalachicola
	14	... S.S. "Wordsworth" from Taganrog
	14	... , "Ben Wyvis" from Skutskar
	14	... B.K. "Teresa Olivari" from Bathurst, N.B.
	14	... , "Jan Melchers" from Pensacola
	14	... , "Ystavat" from Miramichi
	14	... , "Mersey" from Chatham, N.B.
	15	... Ship "Buckhurst" from Calcutta

October	15	... S.S. "Orfordness" from Marianople
"	17	... "A. F. Cosulich" from Taganrog
"	18	... B.K. "Aeolus" from Cronstadt
"	18	... "Concordia" from Hudicksvall
"	19	... "Pierre" from Drammen
"	19	... Schooner "Harmony" from Rouen
"	20	... B.K. "Daphne" from Bersimis
"	21	... Brig "Winifred" from Koenigsberg
"	24	... S.S. "Rishanglys" from Soderhamn
"	25	... B.K. "Bolivia" from Bersimis
"	25	... Ship "Northern Monarch" from Ostend
"	26	... S.S. "Atalanta" from Onsholdvik
"	26	... B.K. "Assyria" from Buenos Ayres
"	27	... S.S. "Beryl" from Archangel and Soroka
"	28	... "Cora Maria" from Rafso
"	28	... "Hay Green" from Marianople
"	29	... B.K. "Avoca" from Montevideo
"	29	... S.S. "Suldal" from Koenigsberg
"	30	... "Nordkap" from Odessa
"	30	... B.K. "Ingomar" from Buenos Ayres
"	30	... "Cambusdoon" from River Plate
"	30	... "Proffessor" from Rosario
"	31	... S.S. "Hero" from Hamburg
November	2	... "Whitby" from Pensacola
"	2	... B.K. "Two Brothers" from Hillsborough, N.B.
"	3	... S.S. "Mary" from Hudicksvall
"	3	... "Echo" from Hamburg
"	9	... "Sam Handford" from Marianople
"	10	... B.K. "Saeheim" from Botwoodville
"	10	... "Truro" from Chatham
"	10	... "Impi" from Chatham
"	11	... "Fjord" from La Plata
"	16	... S.S. "Nigel" from Hamburg
"	19	... "Helena" from Sundsvall
"	19	... "Castor" from Koenigsberg
"	21	... "Tyr" from Sundsvall
"	22	... "Hero" from Hamburg, <i>via</i> Portsmouth
"	22	... "D. Siedler" from Dantzig
"	23	... "Dunsley" from Taganrog
"	25	... "Ravensheugh" from Alexandria
"	25	... "Chingford" from Marianople
"	25	... Barque "Courant" from Bathurst
"	26	... S.S. "Eugenie" from Yeisk
"	27	... Schooner "Luevig" from Denmark
"	29	... S.S. "Cairndhu" from Gefle Wir Skutskar
"	29	... "Echo" from Hamburg
"	30	... "Cogent" from Taganrog
"	30	... Schooner "Union" from Bandholm
"	30	... "Dauntless" from St. Malo

December	1	...	S.S. "Rival" from Libau
"	1	...	"Keroula" from Skutskar
"	3	...	"Feadon" from Dieppe
"	3	...	Schooner "Village Maid" from Groningen
"	6	..	"Salvator" from Groningen
"	8	...	B.K. "Clara" from Halifax
"	8	...	"Filippo" from Pozzalo
"	10	...	"Rolf" from Bathurst
"	10	...	"Norway" from Dalhousie
"	10	...	S.S. "Trelleborg" from Libau
"	10	...	"Cheniston" from Novorossisk
"	11	...	"Blakemoor" from Kertch
"	11	...	"Stelvio" from Odessa
"	12	..	"Hero" from Rotterdam
"	12	..	"Milo" from Nicolaieff
"	12	..	"Midas" from Nicolaieff
"	12	...	Ship "Marlborough" from Parrsboro'
"	13	...	S.S. "Nigel" from Hamburg
"	13	...	B.K. "Paradiso" from Buenos Ayres
"	13	...	Ketch "Ada" from Jersey
"	22	...	S.S. "Clio" from Hamburg
"	22	..,	"Springhill" from Casablanca
"	22	..,	"Cathcart Park" from Koenigsberg
"	23	..,	"Alston" from Ghenitchensk
"	23	..,	"Torridon" from Ghenitchensk
"	26	..,	"Echo" from Hamburg
"	30	...	B.K. "Francesco Gotusso" from Colastine
"	30	...	S.S. "Coatham" from Sulina
"	30	...	Schooner "Dorothy" from Halmstad

NUMBER OF VESSELS EXAMINED FROM JANUARY 1ST  
TO DECEMBER 31ST.

Steamers	...	219
Sailing Vessels		146
Total	...	365